CLAIMS

- 1. An electrical steel sheet for a low-noise transformer, characterized by having a viscoelastic layer 30 μm or more in thickness on at least one of the surfaces of the steel sheet.
- 2. An electrical steel sheet for a low-noise transformer, according to claim 1, having an viscoelastic layer whose loss factor has one or more peaks at temperatures within the range from 20 to 200°C.
- 3. A low-noise transformer formed by using an electrical steel sheet for a low-noise transformer according to claim 1 or 2.
- 4. A low-noise transformer characterized in that the transformer core formed by laminating n pieces of electrical steel sheets has viscoelastic layers 30 μm or more in thickness placed at m gaps among the n-1 gaps of laminated layers, m satisfying the following formula:
 - $3 \le (n-1)/m \le 30$.

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5. A low-noise transformer characterized by
inserting viscoelastic layers, at random, in a core
formed by using an electrical steel sheet for a low-noise
transformer according to claim 1 or 2.